Statement of approximate quantities of work in the estimate for duplicating the 15" Main from Combined Jewell Filters to Low Level Reservoir.

No.	Items of work	Per	Quantity
1	Earthwork excavation in ordinary soil for removing C. I. and steel pipes including refilling, watering, tamping and bringing the surface to original state.	C.yd.	9,156
2	Earthwork excavation in gravelly and morrum soil for laying pipe line from Combined Jewell Filters to Low Level Reservoir, including refilling, watering, tamping and bringing road or ground surface to the original condition.	,,	8,267
3	Removing 15" C. I. Pipes and 16" steel pipes, specials, valves, etc., from the trench including removal of lead from the joints and stacking the pipes, etc., by the side of the trench.	Cwt.	12,297
4	Carting removed pipes, etc., from "Y" Tank line to the proposed new line over a lead of about 5 to 6 miles average including loading and unloading charges.	Cwt. mile	61,485
5	Carting removed 16" steel pipes, etc., from "Y" Tank line to the proposed new line over a lead of about 15 miles including loading and unloading charges.	,,	4,740
6	Laying and jointing 15" C. I. Pipes and specials which are brought to site, including cleaning inside and outside and jointing with lead joints complete, the yarn and lead being supplied departmentally.	Joints	700
7	Laying and jointing 16" steel pipes and specials which are brought to site, including cleaning inside and outside and jointing with lead joints complete, the yarn and lead being supplied departmentally.	,,	1,148
8	Laying and jointing 3" and 4" C. I. pipes and specials using lead and yarn supplied departmentally including cuts, threads, etc., complete.	,,	5
9	Fixing valves and tail pieces with rubber insertion, expansion joints, Pressure Relief valves, etc.	Each	10
10	Constructing valve cisterns of 6' x 6' x 6' with cover slabs one line dressed as per standard design, the C. I. covers being supplied by department.	,,	10
11	Painting the pipes and specials two coats inside and outside with Bitumastic Patent anti-corrosive paint.	Square	1,500

H. F. MARKER,
Executive Engineer.

BUREAU OF SANITARY ENGINEERING, BANGALORE.

Notification, dated 10th November 1933.

Notice is hereby given that sealed tenders will be received at the Office of the Sanitary Engineer, Bureau of Sanitary Engineering, Bangalore, up to 1 P.M. on 25th November 1933 for "Providing Sanitary Fittings to the New Maternity Hospital, Bangalore." An approximate estimate of quantities is given below. These quantities are not guaranteed. The work should be completed by the end of March 1934.

2. The plans, detailed estimate and conditions may be seen at the Sanitary Engineer's Office, between the hours of 11 A.M. and 5 P.M. on all office days.

3. Tenders should be submitted on printed forms which may be obtained from the Sanitary Engineer. The tenders should be accompanied by a statement in the form given

4. Each tender must be accompanied by a deposit of Rs. 400 in cash (no cheques will be accepted) as earnest money and be superscribed "Tender for Providing Sanitary Fittings to the New Maternity Hospital, Bangalore," in default of which the tenders will be rejected.

5. The final acceptance of any tender, will rest with the Sanitary Engineer, who does not bind himself to accept the lowest or any tender or to assign any reason whatever for the rejection of any tender.

6. Within eight days of the acceptance of the tender, the successful competitor will be required to execute the usual contract bond, in default of which, his tender will be considered cancelled and his earnest money will be forfeited.

7. The name of the successful competitor, whose tender has been accepted will be posted on the Notice Board in the Sanitary Engineer's Office in due course. No enquiries regarding the acceptance or rejection of a tender will receive any reply.

8. On acceptance of one of the tenders, the earnest money on rejected tenders will be returned.

9. Charges on account of scaffolding materials, implements for setting out, barricading, clearing site, supply of water, etc, that may be found necessary during execution will not be paid for separately but should be borne by the contractor.

10. Rates for non-tendered and non-estimated items shall be as per schedule rates of the Department or those fixed by the Sanitary Engineer after working out data with not more than 10 per cent for contractor's profit.

11. In all matters not specifically provided for and in all matters of disputes about rates, quantities, measurements, quality of work, etc., and in all disputes of any kind, the decision of the Sanitary Engineer will be final and legally binding.

Abstract estimate of quantities of work to be done for providing Sanitary Fittings to the New Maternity Hospital, Bangalore.

No.	Particulars	Unit	Quantity	Rate
	Group I—Soil and Waste Connections including Labour.			Rs. a. p.
1	Providing 4" cast iron soil pipe of best quality including providing all kinds of specials, such as bends, offsets, junctions, etc., laying and jointing with lead including scaffolding charges and providing 4" zinc ornamental cowl (exclusive of wastages in pipes and fittings).	R.ft.	640	
2	Do 3" pipe as per above ...	,,	225	
3	Providing and fixing 2" cast iron pipe with all kinds of specials and providing 2" zinc ornamental cowls.	,,	160	
4	Providing and fixing 3" cast iron nahni trap with grating including constructing cement concrete cistern.	Nos.	9	
5	Providing and fixing 4" diameter lead pipe including bending and providing 4" brass thimble and tails (casted) and making lead wiped solder joints on both sides.	R.ft.	65	
6	Do 2" do as above for anti-syphon.	,,	20	

No.	Particulars	Unit	Quantity	Rate
				Rs. a. p.
7	Providing and fixing 1½" lead pipe including bending and making lead wiped solder joints including providing union, if necessary (for sink and lavatory waste.)	R.ft.	27	
8	Do ¾" and ½" lead pipe as above ...	„	140	
9	Water connection from storage tank with 1½" diameter galvanised pipe sub-main and 1", ¾" and ½" pipe branches and making wall and terrace bores and imbading pipes in wall and floor complete.	Each	32	
10	Fixing Hindustan Closet with cement concrete bed and sides and fixing flushing cisterns, etc., complete set.	Nos.	10	
11	Fixing English Closet over bed plank and cement concrete bed and fixing flushing cisterns, etc., complete set.	„	13	
12	Fixing toilet roll holders	„	13	
13	Fixing lavatories and sinks complete set ..	„	9	
14	Fixing mirrors and towel rails	„	11	
15	Wall and floor grooving and redoing in cement mortar for encasing soil and waste pipes including cost of wire-netting all round pipe, etc., complete.	R.ft.	170	
16	Making platform for the raised portion of Hindustan Closet pan in cement concrete including making steps, etc., complete	Nos.	13	
17	Stone-wall bore and redoing in cement mortar ..	„	6	
18	Terrace bore and redoing in cement mortar ..	„	6	
19	Stone cornice bore and redoing in cement mortar ..	„	6	
	Group II—Drainage Arrangements.			
1	Laying and jointing 6" stoneware pipes of approved quality with cement mortar 1 to 1 by inserting hemp ropes dipped in neat cement paste including cost of pipes, earthwork excavation and refilling with proper watering and tamping and barricading, etc., complete.	R.ft.	1,292	
2	Do 4" pipes as per above ...	„	160	
3	Constructing circular manhole of 4' dia. inside at bottom and 1¾' at top with wire-cut bricks in cement mortar (1 to 5) side walls 9" thick up to 6' depth and 1½' or more and providing 21" dia. cast iron manhole cover and frame of 2 cwt. including constructing cement concrete drains inside and cement plastering inside and providing required number of cast iron steps at 1' height alternately and earthwork excavation, etc., complete.—			
	Upto 4' depth	Nos.	5	
	4' to 5' depth	No.	1	
	5' to 6' „	„	1	
	6' to 7' „	„	2	
	7' to 8' „	„	1	
	8' to 9' „	„	1	
	10' to 11' „	„	2	
	11' to 12' „	„	1	
4	Constructing Inspection Chamber as per manhole construction and of size 24" x 18" including cost of cast iron air-tight manhole cover and frame.	„	2	
5	Providing 6" x 4" stoneware gully trap with grating including providing 14" x 9" cast iron hinged lid and frame and constructing gully trap cistern complete.	„	4	
6	Constructing ordinary cistern and providing 10" x 10"	„	4	